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To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):David William Boerstler
Mark Edward Dean,
Hung Cai Ngo,
Andrew Christain Zimmerman**2. Name and address of receiving party(ies):**International Business Machines
Corporation
New Orchard Road
Armonk, New York 10504**3. Nature of conveyance:**☒ Assignment

Execution Date:

7/27/00, 7/25/00, 7/27/00, 7/25/00

4. Application number(s) or patent number(s):

09/031718

If this document is being filed together with a new application, the execution date of the application is

7/27/00, 7/25/00, 7/27/00, 7/25/00

A. Patent Application No.(s)

B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:Casimer K. Salys
IBM Corporation
Intellectual Property Law
Internal Zip 4054
11400 Burnet Road
Austin, TX 78758
(512) 823-0092**6. Total number of applications and patents involved: 1****7. Total fee (37 CFR 3.41) \$ 40.00**☒ Authorized to be charged to deposit account**8. Deposit account number:**

09-0447

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Casimer K. Salys
Name of Person Signing

Signature

Date

7/28/00

Total number of pages including cover sheet: 5

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A S S I G N M E N T

Whereas, we,

(1) David William Boerstler
County of Williamson

of Round Rock,
and State of Texas,

and

(2) Mark Edward Dean
County of Travis

of Austin,
and State of Texas,

and

(3) Hung Cai Ngo
County of Travis

of Austin,
and State of Texas,

and

(4) Andrew Christian Zimmerman
County of Travis

of Austin,
and State of Texas,

have invented certain improvements in

**AN APPARATUS AND METHOD FOR HIGH RESOLUTION FREQUENCY
ADJUSTMENT IN A MULTISTAGE FREQUENCY SYNTHESIZER**

and executed, respectively, a United States patent application therefore on
(Dates Inventors Signed Declaration) (1) July 27, 2000, and (2)
July 25, 2000, and (3) July 27, 2000 and (4)
July 25, 2000.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of
New York, having a place of business at Armonk, New York 10504, (hereinafter
called IBM), desires to acquire the entire right, title and interest in the
said application and invention, and to any United States and foreign patents
to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby
acknowledged, we, the above named, hereby sell, assign, and transfer to IBM,
its successors and assigns, the entire right, title and interest in the said
application and invention therein disclosed for the United States and foreign
countries, and all rights of priority resulting from the filing of said United
States application, and we request the Commissioner of Patents to issue any
Letters Patent granted upon the invention set forth in said application to
IBM, its successors and assigns; and we hereby agree that IBM may apply for
foreign Letters Patent on said invention and we will execute all papers
necessary in connection with the United States and foreign applications when
called upon to do so by IBM.

(1) Signed at Austin on July 27, 2000.

David William Boerstler
David William Boerstler

and (2) Signed at _____ on _____, 2000.

Mark Edward Dean

and (3) Signed at Austin on JULY 27, 2000.

Hung Cai Ngo
Hung Cai Ngo

and (4) Signed at Austin on July 25, 2000.

Andrew Christian Zimmerman
Andrew Christian Zimmerman

A S S I G N M E N T

Whereas, we,

(1) David William Boerstler
County of Williamson

of Round Rock,
and State of Texas,

and

(2) Mark Edward Dean
County of Travis

of Austin,
and State of Texas,

and

(3) Hung Cai Ngo
County of Travis

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and executed, respectively, a United States patent application therefore on
(Dates Inventors Signed Declaration) (1) _____, 2000, and (2)
JULY 25, 2000, and (3) _____, 2000 and (4)
_____, 2000.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(1) Signed at Austin on _____, 2000.

David William Boerstler

and (2) Signed at YORKTOWN HEIGHTS on JULY 25, 2000.

Mark Edward Dean

and (3) Signed at Austin on _____, 2000.

Hung Cai Ngo

and (4) Signed at Austin on _____, 2000.

Andrew Christian Zimmerman